

Sr. No	Paper Name	Year	Domain	Hardware
1	Automated Diagnosis of Glaucoma Using Empirical Wavelet Transform and Correntropy Features Extracted from Fundus Images	2016	Biomedical	No
2	Real Time Blood Image Processing Application for Malaria Diagnosis Using Mobile Phones	2015	Biomedical	No
3	Brain Tumor Segmentation using Convolutional Neural Networks in MRI Images	2016	Biomedical	No
4	Automated Abdominal Multi-Organ Segmentation With Subject-Specific Atlas Generation	2016	Biomedical	No
5	Multi-View Probabilistic Classification of Breast Micro calcifications	2015	Biomedical	No
6	S1 and S2 Heart Sound Recognition S1 and S2 Heart Sound Recognition using Deep Neural Networks	2016	Biomedical	No
7	A novel medical image compression using Ripplet transform	Spring er2014	Biomedical	No
8	Dynamic 3-D MR Visualization and Detection of Upper Airway Obstruction During Sleep Using Region-Growing Segmentation	2016	Biomedical	No
9	Red Lesion Detection Using Dynamic Shape Features for Diabetic Retinopathy Screening	2016	Biomedical	No
10	Detection of Clinical Depression in Adolescents' Speech During Family Interactions	2013	Biomedical	No
11	Smartphone Based Wound Assessment System for Patients with Diabetes	2013	Biomedical	No

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12	Optimizing hybrid access femtocell clusters in 5G networks	2015	Communication	NO
13	QoS-Aware Cell Association in 5G Heterogeneous Networks with Massive MIMO	2015	Communication	NO
14	Combining Admission and Modulation Decisions for Wireless Embedded Systems	2016	Communication	NO
15	Self-Coherent OFDM with Undersampling Down-conversion for Wireless Communications	2016	Communication	NO
16	Analysis and Design of Channel Estimation in Multi-cell Multi-user MIMO OFDM Systems	2014	Communication	NO
17	Energy-Efficient Joint Sensing Duration, Detection Threshold, and Power Allocation Optimization in Cognitive OFDM Systems	2016	Communication	NO
18	Generalization of Orthogonal Frequency Division Multiplexing With Index Modulation	2015	Communication	NO
19	A Dynamic Secret-Based Encryption Scheme for Smart Grid Wireless Communication	2014	Communication	NO
20	Aligned Reverse Frame Structure for Interference Mitigation in Dynamic TDD Systems	2017	Communication	NO
21	A Comprehensive Analysis of 5G Heterogeneous Cellular Systems operating over -Shadowed Fading Channels	2017	Communication	NO
22	A PTS Technique With Non-Disjoint Sub-Block Partitions in M-QAM OFDM Systems	2017	Communication	NO
23	Algorithms for adaptive processing of signals in a flat phased antenna array	2017	Communication	NO

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24	All Analog Processing of Speckle affected Self-Mixing Interferometric Signals	2017	Communication	NO
25	Coalition Formation for Interference Management in Visible Light Communication Networks	2017	Communication	NO
26	Compressive Sensing-Based Detector Design for SM-OFDM Massive MIMO High Speed Train Systems	2017	Communication	NO
27	D2D-U: Device-to-Device Communications in Unlicensed Bands for 5G System	2017	Communication	NO
28	Design of a remote signal processing student lab	2017	Communication	NO
29	Dynamic Clutter Suppression and Multi-Target Detection in DVB-T Based Passive Radar2017	2017	Communication	NO
30	Dynamic Incentive Design in Content Dissemination Process through D2D communication	2017	Communication	NO
31	Effect of Offset Mismatch in Time-Interleaved ADC Circuits on OFDM-BER Performance	2016	Communication	NO
32	Energy-Efficient Distributed Resource Allocation with Low Overhead in Relay Cellular Networks	2017	Communication	NO
33	Energy-Efficient Resource Allocation for Mobile-Edge Computation Offloading	2017	Communication	NO
34	Enhancing QoE-aware Wireless Edge Caching with Software-defined Wireless Networks	2017	Communication	NO
35	Generalized High-Precision Simulation for TT&C Channels Using B-Spline Signal Processing	2015	Communication	NO
36	Hybrid Analog-Digital Precoding Design for Secrecy mmWave MISO-OFDM Systems	2017	Communication	NO

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37	Millimeter-wave integrated photoreceivers for high data rate photonic wireless communication	2017	Communication	NO
38	Nonlinear MIMO Transceivers Improve Wireless-Powered and Self-Interference-Aided Relaying	2017	Communication	NO
39	POLYPHONY: Scheduling-Free Cooperative Signal Recovery in Enterprise Wireless Networks	2016	Communication	NO
40	Prism Signal Processing for Sensor Condition Monitoring	2016	Communication	NO
41	Hierarchical License Plate Recognition System Using Supervised K-means and Support Vector Machine	2017	Image processing	No
42	A Segmentation Improved Robust PNN Model for Disease Identification in Different Leaf Images	2016	Image processing	No
43	Automatic Iraqi License Plate Recognition System Using Back Propagation Neural Network (BPNN)	2017	Image processing	No
44	Power Electronic Transformer Based Railway Traction Systems: Challenges and Opportunities	2017	Image processing	No
45	Inference-Based Similarity Search in Randomized Montgomery Domains for Privacy-Preserving Biometric Identification	2017	Image processing	No
46	A Three-Layered Graph-Based Learning Approach for Remote Sensing Image Retrieval	2016	Image processing	No
47	A Novel Active Learning Method in Relevance Feedback for Content-Based Remote	2014	Image processing	No

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	Sensing Image Retrieval			
48	Image Deblurring via Enhanced Low Rank Prior	2016	Image processing	No
49	Translation Invariant Directional Framelet Transform Combined With Gabor Filters for Image Denoising	2014	Image processing	No
50	Patch-Based Video Denoising With Optical Flow Estimation	2016	Image processing	No
51	Blind Image Denoising via Dependent Dirichlet Process Tree	2016	Image processing	No
52	Car that Knows Before You Do: Anticipating Maneuvers via Learning Temporal Driving Models		Image processing	No
53	Illuminant-based Transformed Spaces for Image Forensics	2015	Image processing	No
54	Keypoint Extraction Using SURF Algorithm For CMFD	2016	Image processing	No
55	A Methodology for Extracting Standing Human Bodies From Single Images	2015	Image processing	No
56	Image Forgery Detection based on SIFT and k-means++	2016	Image processing	No
57	Fast Image-Based Obstacle Detection From Unmanned Surface Vehicles	2015	Image processing	No
58	Fast Learning-Based Single Image Super-Resolution	2016	Image processing	No
59	Multiple Hypotheses Image Segmentation and Classification With Application to	2015	Image processing	No

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	Dietary Assessment			
60	Robust Blur Kernel Estimation for License Plate Images from Fast Moving Vehicles	2015	Image processing	No
61	Rich feature hierarchies for accurate object detection and semantic segmentation		Image processing	No
62	Patchwork-Based Audio Watermarking Method Robust to De-synchronization Attacks	2014	Image processing	No
63	Context-Aware Hypergraph Modeling for Re-identification and Summarization	2016	Image processing	No
64	Two level QR code for private message sharing and document authentication	2015	Image processing	No
65	Backward Registration Based Aspect Ratio Similarity (ARS) for Image Retargeting Quality Assessment	2016	Image processing	No
66	Saliency Detection on Light Field	2016	Image processing	No
67	Integrated moving cast shadows detection method for surveillance videos		Image processing	No
68	Super-Resolution Compressed Sensing for Line Spectral Estimation: An Iterative Reweighted Approach	2016	Image processing	No
69	SERF: A Simple, Effective, Robust, and Fast Image Super-Resolver from Cascaded Linear Regression	2016	Image processing	No
70	Semantic Pooling for Complex Event Analysis in Untrimmed Videos	2016	Image processing	No

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71	A Novel Building and Tree Detection Method From LiDAR Data and Aerial Images	2015	Image processing	No
72	Robust Object Classification in Underwater Sidescan Sonar Images by Using Reliability-Aware Fusion of Shadow Features	2015	Image processing	No
73	RESEARCH Open Access Real-time video stabilization without phantom movements for micro aerial vehicles	2015	Image processing	No
74	High Capacity Reversible Data Hiding in Encrypted Images by Patch-Level Sparse Representation	2016	Image processing	No
75	Correspondence On Local Prediction Based Reversible Watermarking	2015	Image processing	No
76	A New Secure Image Transmission Technique via Secret-Fragment-Visible Mosaic Images by Nearly Reversible Color Transformations	2014	Image processing	No
77	Onion Postharvest Quality Assessment with X-Ray Computed Tomography – A Pilot Study	2017	Image processing	Raspberr y pi
78	Abandoned Object Detection via Temporal Consistency Modeling and Back-Tracing Verification for Visual Surveillance	2015	Image processing	Raspberr y pi
79	Adaptive Image-Registration-Based Nonuniformity Correction Algorithm With Ghost Artifacts Eliminating for	2015	Image processing	Raspberr y pi

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	Infrared Focal Plane Arrays			
80	A Temporally Piece-wise Fisher Vector Approach for Depression Analysis	2015	Image processing	Raspberr y pi
81	Multi-gait Recognition based on Attribute Discovery	2017	Image processing	Raspberr y pi
82	Two-layer Gaussian Process Regression with Example Selection for Image Dehazing2016			
83	An Advanced Single-Image Visibility Restoration Algorithm for Real-World Hazy Scenes	2015	Image processing	Raspberr y pi
84	Robotic Disease Detection in Greenhouses: Combined Detection of Powdery Mildew and Tomato Spotted Wilt Virus	2016	Image processing	Raspberr y pi
85	An Investigation Into Machine Learning Regression Techniques for the Leaf Rust Disease Detection Using Hyperspectral Measurement	2015	Image processing	Raspberr y pi
86	Designing a Framework for Assisting Depression Severity Assessment from Facial Image Analysis	2015	Image processing	Raspberr y pi
87	Learning Framework for Robust Obstacle Detection, Recognition, and Tracking	2015	Image processing	Raspberr y pi
88	Early Detection of Sudden Pedestrian Crossing for Safe Driving during Summer Nights	2016	Image processing	Raspberr y pi
89	Fusing LIDAR and Images for Pedestrian Detection using Convolutional Neural Networks	2016	Image processing	Raspberr y pi

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90	Multiple Sensor Fusion and Classification for Moving Object Detection and Tracking	2016	Image processing	Raspberry pi
91	Temporal Pattern Recognition in Gait Activities Recorded with a Footprint Imaging Sensor System	2016	Image processing	ARM
92	Fingerprint Liveness Detection From Single Image Using Low Level Features and Shape Analysis	2016	Image processing	ARM
93	Separating Overlapped Fingerprints	2016	Image processing	ARM
94	Real Time Hand Gesture Recognition for Human Computer Interaction	2016	Image processing	ARM
95	Superpixel-Based Hand Gesture Recognition With Kinect Depth Camera	2015	Image processing	ARM
96	Improved Hand Tracking System	2013	Image processing	ARM
97	Accurate Iris Recognition at a Distance Using Stabilized Iris Encoding and Zernike Moments Phase Features	2014	Image processing	ARM
98	Contactless Palm Vein Recognition Using a Mutual Foreground-Based Local Binary Pattern	2014	Image processing	ARM
99	Fingerprint Liveness Detection From Single Image Using Low Level Features and Shape Analysis	2016	Image processing	ARM
100	Sparse Representation-based Open Set Recognition	2016	Image processing	ARM
101	Undersampled Face Recognition via Robust Auxiliary Dictionary Learning	2015	Image processing	ARM

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101	Generalized Technique of Compensating Low-Frequency Component of Load Current With a Parallel Bidirectional DC/DC Converter	2014	POWER	NO
102	Modified SEPIC Converter With High Static Gain for Renewable Applications	2014	POWER	NO
103	A Novel Multilevel Inverter Based on Switched DC Sources	2014	POWER	NO
104	High-Performance Fault Diagnosis in PWM Voltage-Source Inverters for Vector-Controlled Induction Motor Drives	2014	POWER	NO
105	The Economic Dispatch for Integrated Wind Power Systems Using Particle Swarm Optimization		POWER	NO
106	Optimal Efficiency Control Strategy in Wind Energy Conversion System With Induction Generator	2013	POWER	NO
107	Power Factor Corrected Zeta Converter Based Improved Power Quality Switched Mode Power Supply	2015	POWER	NO
108	Solar PV and Battery Storage Integration using a New Configuration of a Three-Level NPC Inverter With Advanced Control Strategy	2015	POWER	NO

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109	An Inductively Active Filtering Method for Power-Quality Improvement of Distribution Networks With Nonlinear Loads	2015	POWER	NO
110	Cooperative Model Predictive Control for Distributed Photovoltaic Power Generation Systems	2016	POWER	NO
111	Life Detection System During Natural Calamity	2016	Signal Processing	No
112	DETECTION OF SEA ICE BASED ON BEIDOU-REFLECTED SIGNALS	2016	Signal Processing	No
113	A Regression Approach to Speech Enhancement Based on Deep Neural Networks	2016	Signal Processing	No
114	Compensation of Temperature and Acceleration effects on MEMS Gyroscope	2016	Signal Processing	No
115	Acceleration Measurement Drift Rejection in Motion Control Systems by Augmented-State Kinematic Kalman Filter	2016	Signal Processing	No
116	Automatic cough segmentation from noncontact sound recordings in pediatric wards	2015	Signal Processing	No
117	S1 and S2 Heart Sound Recognition using Deep Neural Networks	2016	Signal Processing	No
118	Cough Sound Analysis Can Rapidly Diagnose Childhood Pneumonia	2013	Signal Processing	No
119	Classification of ECG beats Using Cross Wavelet Transform and Support Vector Machines	2015	Signal Processing	No
120	Real-Time Patient-Specific ECG Classification by 1D Convolutional Neural Networks	2015	Signal Processing	No

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121	Epileptic seizure detection using DWT based fuzzy approximate entropy and support vector machine	2015	Signal Processing	No
122	PHRASE-BASED RAGA RECOGNITION USING VECTOR SPACE MODELING		Signal Processing	No
123	Discrimination of Melodic Patterns in Indian Classical Music	2015	Signal Processing	No
124	A Novel Approach for Attitude Estimation Based on MEMS Inertial Sensors using Nonlinear Complementary Filters	2016	Signal Processing	No
125	Multiview Supervised Dictionary Learning in Speech Emotion Recognition	2015	Signal Processing	No
126	Cross-Corpus Speech Emotion Recognition Based on Domain-adaptive Least Squares Regression	2016	Signal Processing	No
127	SVR BASED DOUBLE-SCALE REGRESSION FOR DYNAMIC EMOTION PREDICTION IN MUSIC		Signal Processing	No
128	Clinical Depression analysis Using Speech Features	2013	Signal Processing	No
129	A Pairwise Algorithm Using the Deep Stacking Network for Speech Separation and Pitch Estimation	2016	Signal Processing	No
130	ActiveTrust: Secure and Trustable Routing in Sensor Network Wireless Sensor Networks	2016	WSN	No

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131	Lifetime and Energy Hole Evolution Analysis in Data-Gathering Wireless Sensor Networks	2016	WSN	No
132	Deployment analysis and optimization of heterogeneous networks under the spectrum underlay strategy	2015	WSN	No
133	An Energy-Efficient Ant-Based Routing Algorithm for Wireless Sensor Networks		WSN	No
134	Energy efficient relay selection and power allocation for cooperative cognitive radio networks	2015	WSN	No

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